

# NunyaOS

Week 8



# Updates

- Add functioning user program and system call (Shuyang, Ryan)
- Update windows with borders (Kyle, Zach)
  - Nested windows in the oven
- Work on mouse erase on draw (Alex)
- Work on syscalls to fs and its security (Ryan)



# Enter User Mode/Invoke syscalls

- Successfully switch contexts
- Tests a syscall (testcall)
- Add a command line option to enter user mode



# Graphics

- Add window borders
- Working on creating a window hierarchy test suite
- Use static-allocated buffer for mouse region




# FS syscalls

- Time spent with Shuyang, Jesse out of town.
- Set up file tables in processes (num open, pointers to files)
- Create interface from user mode to kernel mode's fs\_sys\_[open | read | write | close | add\_fs\_allowance | remove\_fs\_allowance ]
- In progress on enforcing security in each of open | read | write functions
  - Mock mapping ata types and units to drivers
  - Converting mode strings to ints
  - Ensuring paths are within a process's allowances



# Future Plan

- Round robin process scheduling
  - Review outstanding pull requests
  - Continue building up fs syscalls, checking security with demo for next week.
  - Expand upon framework for testing
  - Write user level programs (shell)
  - Window syscalls
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# Questions

- Confirm existing process queue mechanism

